10/11

DUVAL CORP. #9 STATE 1-57 NO PERMIT NW SE Sec. 10-T18N-R27E APACHE COUNTY

O

1-57

/ <b>*</b>	
	Andeho
and the second second	County Apache
	Area Holbrook Basin
· · · · · · · · · · · · · · · · · · ·	Lease No. State
11	
me Duval Corporation #9	State
	wp 18N Range 27E Footage 2200' FSL - 1980' FEL
GL Sec 10 1	pud Completed Total
ev 6515' CE 6520' KB D	ate 12-11-63 ADSECTION 1-20-64 Depth 2512'
ntractor	
	Drilled by Rotary
asing Size Depth Cement	Cable Tool
	m to the Wandaman
<u>4" 2060'</u>	Production Horizon
	Initial Production
	thology. (Footage 2303.0 - 2512.0)
	potash test. thology. (Footage 2303.0 - 2512.0)
See file for Core Li	thology. (Footage 2303.0 - 2512.0)
See file for Core Li	thology. (Footage 2303.0 - 2512.0)  Sample Log
See file for Core Li  lec lec lec lec lec lec lec lec lec le	Sample Log Completion Sample Descript.
See file for Core Li  lec ogs	Sample Log Completion Report × Sample Set P-/332 Core Analysis
See file for Core Li  lec ogs	Sample Log Completion Report x  Sample Set P-/332 Core Analysis DSTs
See file for Core Li  lec ogs	Sample Log Completion Report x  Sample Set P-/332 Core Analysis DSTs
lec ogs Gamma Ray-Neutron; pplic. Plugging o Plug Record X	Sample Log Completion Report x  Sample Set P-/332 Core Analysis DSTs
See file for Core Li  lec logs Gamma Ray-Neutron; pplic. Plugging Record X  Sater well accepted by	Completion Report ×  Sample Log Sample Descript. Sample Set P-/33 D Core Analysis DSTs
See file for Core Li  lec logs Gamma Ray-Neutron; pplic. Plugging Plug Record X  Sater well accepted by Sond Co. None	Sample Log Sample Descript. Sample Set P-/332 Core Analysis DSTs  Date
See file for Core Li  lec logs Gamma Ray-Neutron; pplic. Plugging Plug Record X  Sater well accepted by Sond Co. None	Sample Log Sample Descript. Sample Set P-/332 Core Analysis DSTs  Date
See file for Core Li  lec logs	Completion Report x  Cancelled  Sample Log Sample Descript. Sample Set P-/332 Core Analysis DSTs  Date Organization Report
See file for Core Li  lec logs	Sample Log Completion Report x  Cancelled  Date Organization Report  Well Book x Plat Book x
See file for Core Li  lec ogs	Completion Report x  Cancelled  Sample Log Sample Descript. Sample Set P-/332 Core Analysis DSTs  Date Organization Report

Date Issued

None

Permit Number

			نسم					<b>~</b>				۱۲'			
	\ 1.00°		MANUFACTOR :		<b></b>							٦١١			
	WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG DESIGNATE TYPE OF COMPLETION:														
New Wo	ork-	Deepen	r-a Phu		Same Reserv		D	fferent eservoir	Oil	Gas	Dry D				
0			Di	SCRL	PTION OF		D LE	ASE				_			
Operator DUVAL	00000	3 00-				Address	. سادس		۱۵		. 4				
Lease Name	<u>C.OIX ~/)</u>	CAT	<u> 1011</u>			Well Nur	nber	Field & Re	ecervo	1. / <u>UCSOA.</u> Ir	ARIZONA				
Location						! <u>_</u>			Sec	TWP-Range	or Block & Survey	-			
27.00' N	DATH 9-	19	<u>80' west</u>	<u> </u>	of SE	COR	SEC	- 10	71	BN R 27 C	<u> </u>	_			
1	li i	mit nı	ımber	I	Date Issued		]	Previous perm	it nu	mber Date Is	sued.	1			
Apacha Date spudded	Da	e tota	l depth reache	d   1	Date complet		- 1	Elevation (DF, RKB, R	r or C	ir.)   hd. flar	on of casing	-			
Total depth	otal depth   P.B.T.D.   Single, dual or triple completion?   If this is a dual or triple completion, furnish separate report for each com-														
25/2 pietion.  Producing interval (s) for this completion Rotary tools used (interval) Cable tools used (interval)															
Was this well dire	Was this well directionally drilled? Was directional survey made? Was copy of directional survey Date filed?														
Type of electrical	or other logs	run (c	heck logs filed	with	the commis	ıslon)				Date filed	<del></del>	-			
GAMMA	_											_			
						RECORD						_			
Casing (report all Purpose	Size hole d		Conductor, su		<del></del>	(lb./ft.)	ng, et	c.) Depth set	S	acks cement	Amt. pulled	-			
						<del></del>			ļ			_			
	- <del></del>	<u> </u>	ļ		<b>-</b>				<b></b> -			$\dashv$			
			1		_							1			
	UBING RECO							LINER RE	CORD						
Size in.	Depth set	Pa	cker set at	Size	4-	Тор		Bottom	**	Sacks cement	Screen (ft.)				
18-	PERFORA		RECORD	·	in.	AC		t.   HOT, FRACTU	ft. JRE, (	 CEMENT SQUE	EZE RECORD	$\dashv$			
Number per ft.			Depth	Interv	al	ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD  Am't. & kind of material used Depth Interval									
		$\dashv$	·		<del></del>										
												_			
					INITIAL PI										
Date of first prod	luction	Pr	oducing metho	d (ind	licate if flow	wing, gas l	lift or	pumping—if p	umpin	g, show size &	type of pump:)				
Date of test   Hr	rs. tested	Choke	size   Oil	prod.	during test	Gas pro	d. dw	ing test   Wa	ter pr	od. during test	Oil gravity	$\dashv$			
					bbls.	<u> </u>		MCF		bbls.	* API (Corr	r)			
Tubing pressure	Casing pres	sure	Cal'ted rate duction per	of Pr	0- Oil		Ga			ater	Gas oil ratio				
Disposition of gas	(siste whathe	r vante				bbls.	<u>_L_</u>	MCF	<u> </u>	bbls.	L	4			
	· former which is	<del> </del>	an, assu for th	~. VI 8	,										
		<del>- , - , · - </del>										7			
CERTIFICATE: 1,	the undersigne	đ, unde	er the penalty o	f perji	ury, state tha	at I am the	:	•••••	. <b></b>		of the	•			
ronari waa maa	rad syndag		·····	(c	ompany), an	d that la	m auti	norized by said	compai	ny to make this r	eport; and that this	,			
report was prepai	ieu under my si	(PETVIS	ion and directio	n and	ınaı ine façi	is stated th	erein 2	ire true, correct	and co	omplete to the be	st of my knowledge				
Date			************		· · · · · · · · · · · · · · · · · · ·		Sign	ature		• • • • • • • • • • • • • • • • • • • •					
										ONA OIL & C		1			
						w	eil C			N COMMISSIC					
						Form 1				ro copies					

0

C

PLUGGING RECORD Operator 4715 CORPORATION DUVAL Well No. Fleld & Reservoir Name of Lease Sec-Twp-Rge or Block & Survey | County Location of Well C 10 7/8N, R27F AF

Character of well at completion (initial production):

Oll (bbls/day) | Gas (MCF/day) APACHE OF SE. COR SEC Application to drill this well was filed in name of Has this well ever produced oil or gas Amount well producing when plugged:
Oil (bbls/day) Gas (MCF/day) Total depth Date plugged: Water (bbls./day) Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging 25/2 Size, kind & depth of plugs used Indicate zones squeeze cemented, giving amount cement. Depth interval of each formation Fluid content of each formation Put in well (ft.) Pulled out (ft.) Left in Was well filled with mud-laden fluid, according to regulations? NAMES AND ADDRESSES OF ADJACENT Address Name In addition to other information required on this form, if thi plugging operations to base of fresh water sand, perforated letter from surface owner authorizing completion of this well ging which might be required. Use reverse side for additional detail File this form in duplicate with the State of Arizona Oil & Gas CERTIFICATE: I, the undersigned, under the penalty of perjury .....(com report was prepared under my supervision and direction and th

4.

ASING RECO	DRD					
metl ca	e denth and lod of parting sing (shot, ipped etc)		Packers	and she	oes	
						1
		_				
Inc	licate deepest	formation	containing fre	sh water		
EASE OPE	RATORS OR	OWNERS	OF THE SU	RFACE		
			Direction from	n this w	ell:	
						ì
			<del></del>			
			<u>L</u>			
as a water	well and agre	eing to as	fresh water we and address of sume full liabi!	ity for a	anpsedne	ent plug-
			<del> </del>			<del></del>
onservation (	Commission					
state that I	m the					of the
any), and the facts sta	at I am autho ted therein ar	rized by sa true, corr	id company to rect and complet	nake this e to the b	report: and est of my k	that this nowledge.
••••	Signat					
		STATE CONSE	OF ARIZONA RVATION C	OIL &	GAS ION	
	Form No. P-1	5	Plugging Reco	ord F	ile two copi	ies
					-	

FORM 159

### JUVAL CORPORATION INTER-OFFICE MEMORANDUM

DATE 1/28/64

Navajo Esperanza

ATTENTION B. G. Messer

1-57

SUBJECT: DUVAL #9. 3320 FWL SEC. 10. T.18 N., R27E (State)

Date Started: 12/11/63 1/20/64

Completed:

El. G.L.: 6515'

\* KB : 6520' : 25/2

T.D.

Casing : 2060

El Top. Gco.: 4537'
" " Halite : 4159'

. Sylvite : 4065

10

#### Interval (feet)

# Ground elevation 6515'

0-162
182-745
745-
1316-
1495
1785-
1820-1978
-1978-2263
2263-
2341

#### Ground elevation 5790°

C-10
10-97
97-119
119-
407
, 658∞
675-917
917-1262
1262-
1348

MIG	STRAGETON ONA
	C+33
	33 <b>-295</b> .
	295-
	493-
	753
	1125-1218
	1218-1516
	1613

	V-40	
	48-175	
	175-181	
	181~	
	480	
	730 (grad	stional)-
•	802-951	
	951-1257	
	1257~	
	1347	

#### Formation or Member

Dune Sand Bidahochi Upper Petrified Forest Lower Petrified Forest Top of greenish-grey unit Shinarump Lower kupatki Coconino Supai Top of 1st marker Anhydrite

#### Dune Sand

Upper Petrified Forest Sonsela Lower Petrified Forest Top of greenish-grey unit Shinarump Lower Nupatki Coconio Supai Top of 1st marker Anhydrite

#### Dune Sand Bádahochi

Upper Petrified Forest Lower Petrified Forest Top greenish-grey unit Lower Wupatki Coconio Top of 1st marker Anhydrite

## Ground elevation 5676\* 0-48

#### Dune Sand Upper Petrified Forest

Sonsela Lower Petrified Forest Top greenish-grey unit Shinarump Lower Wupstkl Coconino Supai Top of 1st marker Anhydrite.

12

Form 3 2M Sheets 5-54

DUVAL SULPHUR & POTASH COMPANY
POTASH DIVISION
CARLSBAD, NEW MEXICO

OOR

WHILE WE BELIEVE THIS INFORMATION TO BE CORRECT. WE MAKE NO REPRESENTATION WITH RESPECT TO, NOR DO WE ASSUME AND RESPONSIBILITY FOR, THE CORRECTIONS IMPREOF.

DUTAL CORPORATION

CORE LITHOLOGY

WELL NO. 2

	· D	EPTH	(Feet)		INTER				DESCRIPTION
-	From		To		Fee		Shale	P	
L					A	bbr	eviatio	ns:	H - Halite K - Kieserite
									A - Anhydrite Le-Leonite
									P- Polyhalite K - Kainite
					ļ.,ļ.				S - Sylivite L - Langbeinite
									C - Carnallite Cyp Cypsum
									f.g fine grained med.g medium grained
		]							c.g Coarse grained clr clear
L									incl inclusions occ occasional
									irreg irregular V very
	2303	0							Start Coring
	2303	Š	2308	O	5	0	70	30	Silt-clay, lt., gray-tan, Cyp. indurated, hard; few
	-								A/Gyp. stringers.
	2308	0	2311	7	3	7	90	10	Clay-silt, V. hard, lt. to dark brn.; some small to
									V. large lt. gray to white Gyp. blebs & stringers,
				•					0.3' 80% Gyp. zone at 2308.1'.
	2311	7	2312	5	0	8	70	30	Silt-clay, V. hard, lt. red-brn.; numerous large
									white Gyp. incls. decr. down from 50% at top to 10%
COST.									at base.
Ĩ	2312	5	2315	1	2	6	90	10	Clay-silt, med. hard, red-brn.; few white to gray
-									Gyp. blebs. decreasing down from 15% at top to 5%
1									at base.
	2315	1	2320	8	5	7	-	100	A, dark gray, some V. small clear selenite.
	2320		2321		0	4	-	Ti	Gyp. lt. gray to white.
	2321		2338		17	1	90	7	Clay-silt, tan-dark brn.; some white to lt. gray A/
									Gyp. incls.; 0.2' band at 2325.4', 2328.7', 2333.0'
20000777									& 2337.0% at 0.4 above base.
TO THE PERSON	2338	3	2338	8	0	5	-	100	Gyp., Elt. gray-clr., milky.
	2338	t	2340		1	<del></del>	y		Clay-silt, lt. to dark brn., med. soft; some small
a la constanta					1		1		to med. white Gyp. blebs.
	2340	5	2341	1	0	6	_	100	Gyp. lt. gray-clr-milky.
		1		<del></del>	1			1	
, ,					1	<b> </b>		1	

# DUVAL SULPHUR & POTASH COMPANY

WELL NO. 9	CORE LITHOLOGY	PAGE NO2_
WEBB NO.		

DEPTH (														Feet) To				RVAL et	ESTIM Shale	1. % <b>KA</b>	DESCRIPTION			
2341	1	2343	3	2	2	98		Clay-silt, med. to dark brn., med. soft; 45° fractu																
	-			1				plane at 2342.5%; few white Gyp. blebs.																
2343	2	2314	1.	1	1	10	90	A/Gyp., lt. to V. dark gray, 45° fracture planes at																
2343	ر	2344	4	-	4	10	70	top & 2344.1, few med. brn. clay-silt incls. in																
				╂				lower half.																
	•	nal ć		<del> </del>	-																			
23144	4	2346	12	1	8	92	0	Clay-silt, med. to dark brn., med. soft to hard; som																
				1		<u> </u>	700	irreg. white A/Gyp. veinlets & blebs.																
2346	2	2361	1	14	9		100	A, med. to dark gray; few V. thin red-brn. clay																
		<u> </u>	<del>                                     </del>	ـــــ	<u> </u>		<u> </u>	stringers in top 21, parting at 2347.41																
2361	1	<u> </u>				ļ		Top Of Salt.																
2361	1	2361	6	0	5	-	80	A, gray; irreg. vertical zone H, pink, f.g. schisto																
			-	<u> </u>			]	at top.																
2361	6	2363	1	1	5	90_	5	Clay-silt, brn - red, soft; few irreg. H, f. veinlet																
								occ. large white A bleb in lower half.																
2363	1	2363	6	0	5	140	3	H, med. g.; numerous large dark brn., irreg. clay-																
								silt incls.; 0.1 band at 2363.3 few small white																
		<u> </u>		1				A incls.																
2363	6	2364	3	0	7	60	15	Clay-silt, dark brn., soft; some H, f.g. to med.;0.																
			1					white A band at top.																
2364	3	2364	9	0	6	15	_	H, f.g. to med.; some med. to large brn. clay-silt																
	Ť-		1	1			1	incls. parting at 2364.8.																
2364	9	2365	2	0	3	95	_	Clay-silt dark brn., soft; occ. H, fibrous veinlet																
2365		2367	1	2	7	20	9	H. f.g. to med.; numerous large brn. clay-silt inc																
<u> </u>	-	101	7	<u> </u>	<del>  •</del> •-			decreasing down from 30% at top to 10% at base; 0.																
	+-	-	+-	1		1	1	zone 80% clay at 2366.41; few white A stringers in																
<u></u>	+-	1	+-	+-	<del> </del>	<del>                                     </del>	$\dashv$																	
2367	0	2370	. h	2	1	2	+_	bottom foot.																
1		_{						H, clr., med. frw small red-brn. clay-silt stringer																
2370	<u> </u>	2373	-	3	7	8	1																	
<u> </u>		1	-		-			incls; oss. small white A blebs & stringers.																
2373	7_	2371	b	0	3	90	-	Clay-silt, dark brn., little gray soft; faw H fibro																
£	1	1	I	I	1	ļ	- 1	veinlets.																

C

. . (=1141)

# DUVAL SULPHUR & POTASH COMPANY

WELL NO. 9 CORE LITHOLOGY PAGE NO. 3

	D	EPTH	(Feet)		INT	TERV.	1—	ESTIM.		-	DESCRIPTION
	From		То	·	<b> </b>	Feet		Shale	æA	محصد	land at the land of the land o
	2374	0	2377	2	3	2	:	6	-	_[1	H, med. g.; some brn. clay-silt incls.
	2377	2	2379	1	1	5	1	_3	-		H, med., clr., lower half; few small brn. clay-silt
					1_						incls. grading out down.
	2379	1	2382	٥	2	9	<u> </u>	1	]		H, V. clr., f. to c.g.; V. few small brn. clay-silt
					L.				_		incls. & white A stringers.
	2382	0	2384	5	2		5	~	و ا	6	A, gray,; occ. H, f.g. intergrowth in lower half.
	2384		2386	i	2	2	2	4	-		H, med.; some small dark bra. clay-silt incls., 1/2"
			1				Į			1	band at top.
	2386	7	2388	5	1	L	8	2	_	.	H, clr., f.g. to med.; few small red-brn. clay-silt
		<u>-</u>		-	T	_					incls.
	2388	ς	2392	0	1	3	5	1		1	H, V. clr., med.; occ. small white A blebs & red-brn
		-		-					T	İ	clay incls.
	2392	0	2392	5	+	0	5	2	十	2	H, pink, med.; few small gray A stringers in lower
-	<i>C.37C</i>	1	1	-	$\perp$	-	-		+		third; occ. small brn. clay stringer.
	2392	٠,	2393	1	$\dashv$	0	6	30	╅-	_	H, med.; many small hard brn. gray clay-silt incls.
				<del></del>		0	6	65	+		Clay-silt, dark brn., soft; some H, f.g. incls.
	2393	1	2393	) (	-	<del>'  </del>	<u> </u>	1			slickenside at 2393.4: with 0.1: bank pink H below.
-		<u> </u>	1	م ر	+	1	8	25	$\dagger$	2	H, med. g.; many large brn. clay-silt incls.; V.few
ļ	2393	17	239	2 2	$\dashv$	-	<u> </u>	1	$\top$	-	
<u> </u>						$\overline{}$	3	75	-		Clay-silt dark brn., V. soft; H pink fibrous veinlet
į.	2399	1 '	239	7		0		8			H, f.g. to med.; some med. to large brn. clay-silt
į	2399	5 8	240	4 9		9	1	1 0	-		incls., 0.2 band at 2496.1; few white A blebs.
Taraka				- -	-			1 .	-		H, f.g. to med.; few small to med. brn. clay-silt
200	240	1 3	241	0 9		6	0	1 4	-		incls. grading out down; few small gray A stringers
A TANA				_	_			-	-+		grading in down in bottom third.
-				-   -				_	-	~~~	H, clr., med.; gary A bands, 1/2" at top & at
ACCURATION .	241	0 9	241	1 7		0	8		_	۲>	He Cire, mede , gary a paragraph of the other small
- <del>(</del>				$\perp$					$\perp$		2411.1', 0.1' band at 2411.3', few other small
po recent				_ _		·	<u> </u>				gray A incls.
dame.	247	17	241	<u> 3   8</u>	3	2	1	-		100	A, gray.
- Landard		.3 8	ŧ	17 9	,	<u>_ L</u>	1		2	85	A, lt. gray, many, small H f.g. intergrowths, 0.2
W- 744 188											zone brn. clay partings at 2417.1.
		_						-			

O

# DUVAL SULPHUR & POTASH COMPANY

WELL NO. 9 CORE LITHOLOGY PAGE NO. 4

		I (Feet)		4	ERVA	-	ESTIM.	% RA	DESCRIPTION
From		то 21,19	۲	$\dagger_1$	T	-	4		H, f.g. to med.; some small brn. clay-silt incls.;
2417	9_	21173		╁╌	- -				few med. to large gray A stringers, grading in down.
01-10		21,21	3	1		;	12	1	H, f.g.; many small to V. large lt. brn. clay-silt
2419	0	i siter	<u>.</u>	╁╼	+	+			incls.; occ. white A stringer in top half.
01.07	-	21,22	7	1	+	5	<u>цо</u>	_	H, f.g.; many V. large & V. small brn. clay-silt
2421	7	- Stiss.		╁╧	<u>'</u>	1	40		incls., 0.4° 80% clay zone at base.
01.00	7	21,24	7	12	+	<u> </u>	8		H. f.g. to med.; some med. to large dark brnred cla
57155	-	1 2424	-	+=					silt incls.; occ. V. small white A stringer.
2424	7	21,31	0	7	,	2	3	-	H, clr., med. to c.g.; few small to med. dark brn.
Ецец	-			<del>                                     </del>				1	clay-silt incls & stringers; occ. V. small white A
	╁╌		-	+	十	1		<del>                                     </del>	bleb.
2431	0	2433	7	١,	L	8	6	1	H, med. g.; some small brn. clay-silt incls.; occ.
24,1		1 2477	+-	+				1	white A stringers.
21,33	-	2435	1/2	1.	1	6	2	1	H, clr. to pink, med. to V. c.g.; few white to gray
2432	1	24,7,2		+	-				A stringers, 0.2: 30% A zone at base; few small brn,
	+	1	1	1				1	clay-silt incls.
243	र् २	. 21,3	1 2		1	9	140	2	H, c.g.; many V. large red-brn. clay-silt incls.,
			-					1	0.4: 30% zone at 2435.6; few thin white A stringer
	+-		+-	1					in top half foot.
243	7 2	244	1 6	1	4	4	15		H, med. to c.g.; some small to large red-brn.clay -
43	110	1	-   -		<del>-</del>				silt incls. incr. down from 5% at top to 25% at base
<u> </u>	-		-	1			<b></b>		V. few small white A blebs.
21.1.	16	21,1,	50	1	3	4_	8		2 H, c.g.; some med. to large red-brn. clay-silt incls
244	10	1		1		_ = -			few white A blebs & stringers.
2),)	50	214	7 8		2	8	15	-	to large radebine
				十					clay-silt incls., 0.2: 70% zone at 2446.7:; occ.V.
4			_						small white A bleb.
21.1	78	249	1 3		3	5	4		2 H, tan-clr., med. g.; few dark brn. to red clay-silt
			-  <del>-</del>				1		incls. & stringers; few small gray A blebs, grading
	-	1	+	1			1		out down.
2).1	1 3	2).1	53 (	,	ı	7	1		H, med. to V. c.g.; few small to med. dark brn. cla
-4.	<u> </u>		<u>, , , , , , , , , , , , , , , , , , , </u>			İ			silt incls. thin clay parting at 2452.1.

Œ3

w

# DUVAL SULPHUR & POTASH COMPANY

WELL NO9	CORE LITHOLOGY	PAGE NO. 5

1	ЕРТН	(Feet)		INT	ERV.	-	ESTIM.			DESCRIPTION
From		То		₩-	Feet		Shale	ΒţΛ		
2453	0	2454	75	1	7	5	1	3	Н,	V. clr. to pink, V. c.g.; few irreg. gray A
	_ [				_				st	ringers; occ. V. small brn. clay-silt incl.
2454	75	21,55	50	0	7	5	•	25	1	clr. to pink, c.g.; few large gray A stringers,
										2º of 80% A at base.
2455	50	2456	90	l	14	0	-	10	Н,	V. clr. to pink, c.g. to V. c.g.; occ. small to
									_	erge gray A blebs & stringers, increasing from 2%
								ļ	at	ends to 20% at center.
21,56	90	2457	75	0	8	5	8	-	Н,	, clr., V. c.g.; clay-silt, lt. brn., hard, increas-
				1	$\top$	-	·-		ir	ng down from 0% at top to 15% 0.2 above base, 0.1
<u> </u>			<del>                                     </del>	1		Î			zo	one of 60% clay 0.3 above base; occ. V. small pink
	-			1	_			1	S	bleb near base. Est. K20/S = less than 1%.
2457	72	2458	85		1 3	LO	5	_	h	, clr., V. c.g.; S, pink to milky, V. c.g., mostly
2471	13	247	102		-  -			<del>                                     </del>	i	n top half; some clay-silt incls. & stringers, tan-
	+	<b> </b>		+			<b></b>	†-		reen, grading in down. Est. K20/S = 18%
	1	0) ((	1	<del>,  </del>	1	l.O	1			, clr, med. to c.g.; numerous V. small gray A blebs
2450	85	2460	7 63	+	<u> </u>	40		+	Я	stringers; some V. small to large red-rimmed milky
	+		+	-			<del>                                     </del>	-	•	blebs; occ. small gray clay incl.
		1	-	$\dashv$			<b> </b>	+-		Est. K20/S # 2%
	-	01.6	<u> </u>	_	1	30	<u> </u>	-	3 F	H, V. clr., c.g.; few gray A stringers; occ. small
2110	0 25	246	1 2	2+	-	الح	1 -	$\dashv$	7 1	to med. red-rimmed milky S bleb. Est. K20/S = 1%
<u></u>		<del></del>		_	_	~~	1	-		H, V. clr., med. c.g.; O.h' milky S at top, occ.
21,6	1 55	21,6	2 6	0	1	05	<del>  "</del>	+		small milky S blebs in lower half; occ. gray A
		<u> </u>	+	$\dashv$		<u> </u>	1 -			stringers, grading in down. Est. K20/S = 24%
				_		<del> </del>				H, V. clr., med. to c.g.; occ. small to large pink
246	2 60	246	57 C	<u>o  </u>	1	40	<u> </u>	}-	11	milky S blebs, grading in down; occ. V. small gray
			_			<del> </del>				A stringers. Est K20/S = 2%
	_ _		$\perp$	_		<u> </u>	<del></del>	_		H, f.g. to med.; many med. to V. large red-brn.
240	<b>54 0</b>	24	67 7	<u>'  </u>	3	7	140	2	<u> </u>	H, 1.g. to med.; many med. w 1. 2066.21 & 2066.91
						-	_			clay-silt incls., partings at 2466.2 & 2466.9;
						_	1_	_		occ. thin white A stringer.
2l <sub>1</sub>	67 7	214	68	6	0	9	7	5	-	Clay-silt, It. to dark brn.; H, f.g. incls. in top
										& bottom quarters.
			$\neg$			1	į			

0

G

# DUVAL SULPHUR & POTASH COMPANY

WELL NO 9	CORE LITHOLOGY	PAGE NO. 6

D	ЕРТН	(Feet)		INTE				DESCRIPTION
From		To		Fe	et	Shale	XA.	
2468	5	2471	1	2	5	5	2	H, med. g.; some small to med. red-brn. clay-silt
								incls.; few small to med. white-gray A stringers.
2471	L	2474	2 .	3	1	2	2	H, clr. to V. in bottom half; few small brn. clay-
								silt incls. & white A Stringers.
2474	2	2475	6	1	2	3	4	H, clr.; few small to large white A stringers & few
	<u>i</u>							red-brn. clay-silt incls. grading out to middle.
2475	7	2479	1,	3	8	_	3	H, V. clrpink; few small to med. white A stringers,
2417	1	-417	<u></u>	-	-			0.1' band at 2473.1'; occ. V. small brn. clay incl.
01.70	1.	2481		1	7	25	6	H, med.; many small to large red-brn. clay-silt
2479	4-1	SHOT	<u>.                                    </u>	1-	-			incls, incr. down from 2% at top to 30% at base,
				-	-		┼	0.1° bands at 2480.3° & 2481.0°; O.1° white A band
				<del> </del>	<del> </del>	<del> </del>		K F
				-	<del> </del>			at 2h79.61.
2481	1	2484	1_	3_	0	80	-	Clay-silt dark red-brn., soft; many H med. incls. &
				<b> </b>	<u> </u>	-	—	vertical schistose veinlets.
21484	1	2486	9	2	7	1 4	<u> </u>	H, f.g. to medl; few small to med. brn. clay-silt
r Description			<u> </u>		<u> </u>	<u> </u>		incls.; occ. V. small white A stringer.
2486	9	2488	8	1	9	1 1	1	H, clr., med. to V. c.g.; few small to med. white-
- T-					<u> </u>			gray A blebs & stringers; occ. small brn. clay-silt
								incl.
21,88	R	2493	9	5	1	2		H, med. to c.g., clr. in lower half; few small brn.
2400								clay-silt incls. decr. down from 3% at top to 1% at
<u> </u>	<del>                                     </del>		$\top$			1		base; occ. small white A stringer.
2493	0	21,96	<del> </del>	2	5	55	_	Clay-silt, red-brn., softand H, f.g. decf. down from
2473	7		1	<del>                                     </del>	+	<del> </del>		60% at top to 30% at base.
01.04	, 1	2498	2 7	2	3	3		2 H, dr., med.; few small to med. brn. clay-silt incls
2496	14	2490	1	+-	+-		+	& few small white A stringers in lower two-thirds.
		<del></del>	+-		+			and the same of the
249	3 7	249	9 8	<u>  1</u>	1	<u> 1</u>	-	silt incls. & occ. med. white A stringer.
	<u> </u>			<u> </u>	٠,			A ship of the contract of the
2499	9 8	250	70	7	2	-		· · · · · · · · · · · · · · · · · · ·
*	<u> </u>						_ _	stringers incr. down from 1% at top to 3% at base,
								parting at 2505.1; occ. V. small brn. clay incl.
in the								

Ð

form 3-A

11.22.22

# DUVAL SULPHUR & POTASH COMPANY

WELL NO. 9	CORE LITHOLOGY	PAGE NO. 7
•		

	EPTH	(Feet)		INTERVAL		ESTIM.	. %	DESCRIPTION		
From		То		Fe	et	Shale	RA.	PROMIT TON		
2507	0	2508	3	1	3.	_	80	H, lt. gray; H, f.g. grading out down, intergrowths in middle third.		
2508	3	2509	3	1	0	75	10	Clay-silt, med. brn., soft, 0.2 zone 50% A st top;		
2509	3	2512	o	2	7		- 3	H, f. to c.g.; few small-med. brn. clay-silt incls.  few white A stringers grading in down.		
		2512	0					Total Depth		
								IOGGED BY KALESON		
			-							
	474									
		<u> </u>		-				·		
					-					
		•	-							
<u>-</u>										
							<u> </u>			
			-	-	-	<u> </u>				
<b>~</b>										

(g) 35°00' [] 3870 998 N 81 N 3472 57'30" AN ET OLAVAN